

ABSTRACT

[0028] A method for forming a sol gel – zeolite composite dielectric material is herein described. Zeolite particles may be dispersed in a sol creating a liquid sol – zeolite colloid. The liquid sol – zeolite colloid may be deposited on an underlying layer. The liquid sol – zeolite colloid may be formed into a wet gel – zeolite composite. All of the liquid may be extracted from the wet gel – zeolite composite to form an aerogel – zeolite composite. Then the wet gel – zeolite composite or the aerogel – zeolite composite may be calcined to freeze the structure of the composite material.